

MOBILETT XP (Hybrid / Eco)

SP

Maintenance Protocol

System

including DHHS requirements

Customer:

Address:

Department:

Room:

Contact person:

Telephone:

Cust. specific no.:

Cust. no.:

Date.:

The instructions SPR8-230.831.01.06.02 are required for this protocol

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English
Doc. Gen. Date: 11.05

SIEMENS Office:	
Address:	
Region:	
Country:	
Contact person:	
Tel.:	
CSE in charge:	
Tel.:	

Remarks Regarding the Protocol:

The protocol is valid as proof of quality for **one** check that must be performed on the system / component in one year.

The check must be performed in the specified intervals.

The results of the check are entered in this protocol.

The chapter numbers in front of the checkpoints indicate the corresponding chapters in the particular instructions (see cover page).

The protocol must be completely filled out by the Customer Service Engineer, i.e.:

- All boxes must be filled out. If a box does not apply to the system or if no entry needs to be made, check the "n.a." box.
- Enter the customer number (Cust. No.:) and the date of the check in the header of each page so that each page can be allocated to a customer and to a check date.
- If there are complaints, the IVKs for the component about which a complaint has been made as well as the type of complaint must be entered in the "Open Points" table provided for this. Correction of these open points also must be documented in this table with the date and a signature. If there are no open points, check "No" and document this with the date and a signature.
- If movable components (also test phantoms that are part of the system) that can be used in different systems are used for the check, they must be entered in the "Movable Components" table provided for this.
- The measurement values for the measurements that must be performed during the check must also be entered in the open spaces / tables provided for them.
- After completing the check, Page 3 of this protocol must be filled out and signed.

Further Processing and Archiving of the Protocol

The protocol is a document and thus must be archived. After completing the test, it must be filed in the corresponding register in the "System Owner Manual" binder. If needed, a copy can be handed to the customer.

System:	
Serial No.:	
Software Version:	
Number of the Service Contract:	
Type of Maintenance:	

Evaluating the Condition of the System / Component

The system has no deficiencies. The image quality test resulted in no differences from required reference values.	
The system / component has slight deficiencies that have no affect on continued operation of the system. However they should be corrected preventively. The image quality test resulted in no differences from required reference values.	
The system / component has serious deficiencies. For safety reasons, continued operation of the system is permitted only after successfully correcting the deficiencies.	

After completing all work steps, an evaluation was performed.

Signature: _____

Date:

Name:

The operator or a person assigned for this has taken note of this evaluation.
(if national regulations require this)

Signature: _____

Date:

Name:

Explanation of Abbreviations in the Protocol

Abbrev.	Explanation	Abbrev.	Explanation
SI	Safety Inspection	PMF	Preventive Maintenance, Operating Value Check, Function Check
SIE	Electrical Safety Inspection	Q	System Quality, Image Quality
SIM	Mechanical Safety Inspection	QIQ	Image Quality
PM	Preventive Maintenance	QSQ	System Quality Check
PMP	Periodic Preventive Maintenance	SW	Software Maintenance
PMA	Preventive Maintenance Adjustments	CSE	Customer Service Engineer

Additional activities performed

Only activities that are not described in the instructions for the system / component need to be listed.

Date:		OK	not OK	n.a.
Additional activities performed:				

Open Points:

Yes: _____ No: _____ Signature: _____

Date: _____ Name: _____

If "Yes", enter the component with the IVK and the open point (only the number) in the table. After completing maintenance, record this in the table.

IVK	Component	Open Points	Completed	
			Date	Signature

Measuring Devices queried electronically:

Yes:

No:

Signature:

Date:

Name:

If the measurement devices are queried electronically, for example with a Scout Mobile Device, entry of the measuring devices in the table can be skipped.

Measuring Devices	Type	Serial No.	Date Used	Next Calibration Due

Movable Components:

Yes:

No:

Signature:

Date:

Name:

If "Yes", enter the movable component with which the check was performed along with the with the Serial No. in the table.

Movable components (also test phantoms that are part of the system) are parts that can be used on different systems).

Component	Serial No.

1 General information**2 General maintenance information****3 Inspection and maintenance****3.1 Visual inspection**

SIM Signs
SI Customer Documentation

3.1.1 Damage

SIM Covers
SIM Cassette holder
SIM Control panel and display panel
SIM Release cable
SIM Single tank
SIM Collimator
SIM DAP (optional)
SIM Remote control (optional)

3.2 Mechanical inspection**3.2.1 Back wheels**

SIM Check for mechanical defects
SIM Brake pad
SIM Secure attachment
SIM Smooth rotation
SIM Drive belt (Hybrid only)

3.2.2 Castors

SIM Secure attachment
SIM Smooth rotation

3.2.3 Front transport wheels

SIM Secure attachment
SIM Smooth rotation

3.2.4 Braking

SIM Uniformity
SIM Braking force

3.2.5 Support arm transport lock

SIM Check for mechanical defects
SIM Locking mechanism

3.2.6 Handles

SIM Attachment

3.2.7 Collimator adjustment knobs

SIM Attachment

3.2.8 Arm system and single tank

SIM Movement of the arm system

SIM Moving the single tank holder

SIM Moving the single tank

3.2.9 Power cable

PMP Cable winch replacement

Startup Date / Date of Last Replacement

DD MM YYYY

SIM Check for mechanical defects

SIM General cable winch information

PMP Cleaning

3.2.10 Power plug

SIM Check for mechanical defects

3.2.11 Arm system attachment

SIM Screws and lock nuts

3.2.12 Arm connector

SIM Screws and nuts

3.2.13 Adjusting screw and cantilever

SIM Lock nuts

SIM Attachment of the base

3.2.14 Single tank holder

SIM Holder screw connections

SIM Single-tank screw connections

3.2.15 Cable harness for the arm system

SIM Damage-free

3.2.16 Lubrication

PMP Pull-bar slide bushing

3.3 Function inspection**3.3.1 Service mode****3.3.2 Operating information**

PMF Exposure counter

Measured value:

PMF Error log

3.3.3 Displaying the control panel

PMF Mains display

PMF kV/mAs default values
 SIE kV/mAs segment displays
 PMF Ready indicator
 SIE kV/mAs displays according to operating instructions

3.3.4 Checking the radiation indicator

SIE Radiation ON indicator
 SIE Ready indicator
 SIE Acoustic signal

3.3.5 Manual termination of exposure

SIE "ERR 39" display
 SIE Acoustic signals

3.4 Collimator

3.4.1 Replacing the lamp

PMP Annual replacement of the collimator lamp
 PMF Light localizer function

3.4.2 Check of illuminance

PMF illuminance

Measured value:

3.4.3 Light field/radiation field

QSQ Deviation ((A + C) / SID)

Measured value:

QSQ Deviation ((B + D) / SID)

Measured value:

3.5 Inspection of XP Hybrid only

3.5.1 Batteries

PMF Charging performance

Startup Date / Date of Last Replacement . . .

DD MM YYYY

3.5.2 Motor drive

PMF Forward/backward
 PMF Slow/fast

3.6 Options**3.6.1 DAP measuring system**

SIE Function of the DAP measuring system

3.6.2 Remote control

PMP Battery replacement for remote control (yearly)

SIE Remote control function

3.7 Checking the kV/mAs exposure parameters**3.7.1 kV accuracy**

PMF kV accuracy 52 kV, 50 mAs

Measured value:

PMF kV accuracy 81 kV, 20 mAs

Measured value:

PMF kV accuracy 133 kV, 12.5 mAs

Measured value:

PMF kV accuracy 125 kV, 12.5 mAs

Measured value:

PMF kV accuracy 81 kV, 20 mAs

Measured value:

3.7.2 mAs accuracy

PMF kV accuracy 40 kV, 5 mAs

Measured value:

PMF kV accuracy 81 kV, 2 mAs

Measured value:

PMF kV accuracy 133 kV, 10 mAs

Measured value:

PMF kV accuracy 125 kV, 10 mAs

Measured value:

PMF kV accuracy 81 kV, 2 mAs

Measured value:

3.8 Reproducibility test (USA only)

QSQ Coefficient of variation C

Measured value:

3.9 Protective conductor test

SIE Protective conductor test

3.10 Leakage current measurement

SIE Leakage current measurement

3.11 Cleaning

PMP Cleaning